Figure 1

Tapperson
AUS920010054US1
Method, Apparatus, and Program for Generating
Java Full Thread Dumps From a Remote JVM

104

Server

Network
102

108
Client

110
Client

112
Client

106 — Storage

Network Data Processing
System
100

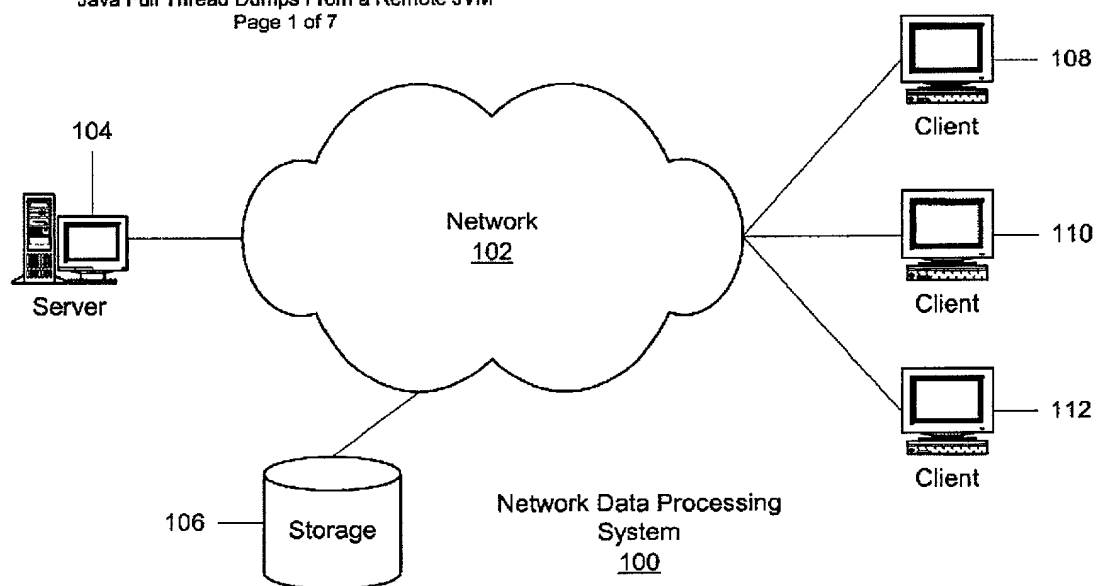**Figure 2**

Tapperson
AUS920010054US1
Method, Apparatus, and Program for
Generating Java Full Thread Dumps
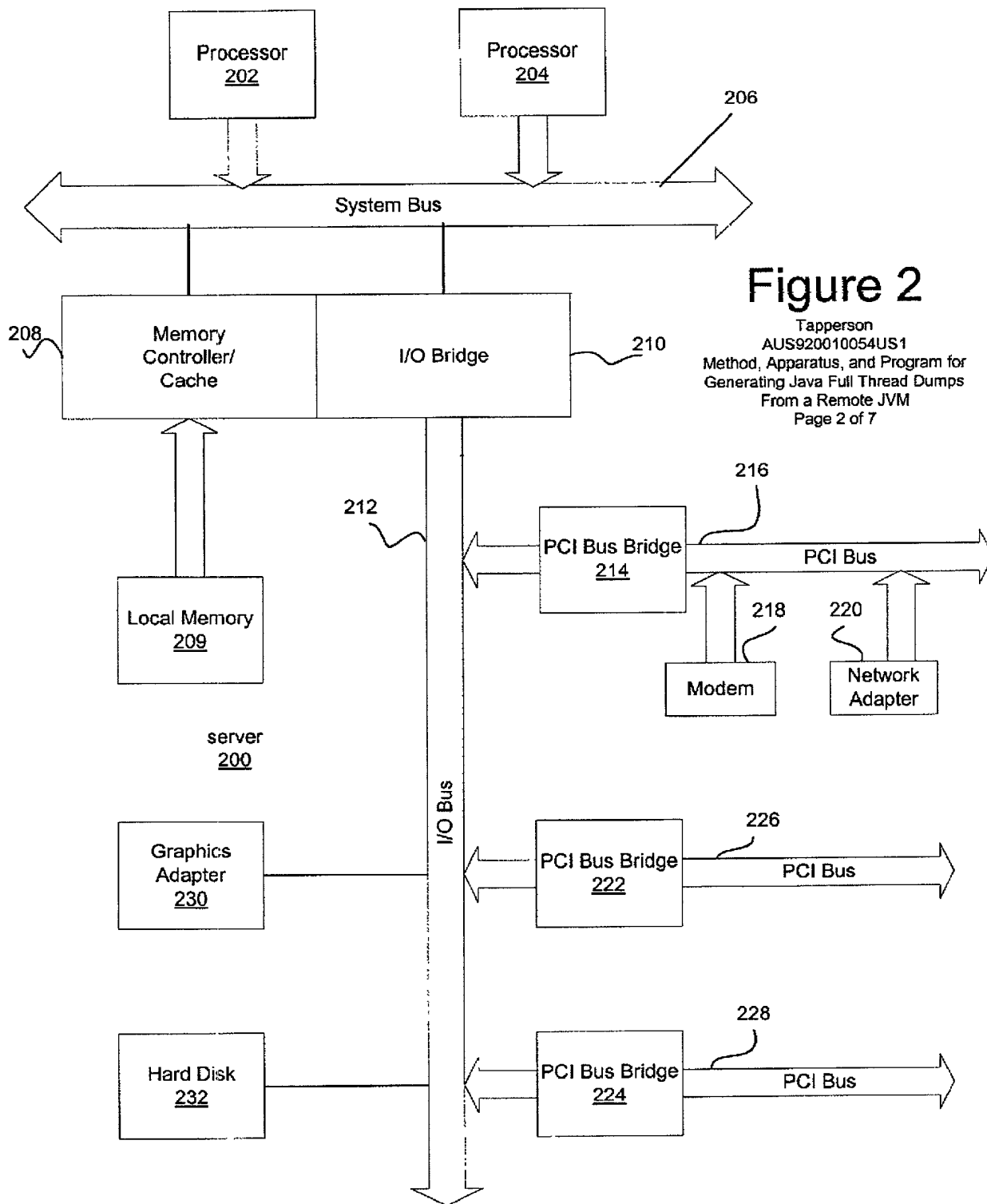From a Remote JVM
Page 2 of 7

Processor
202

Processor
204

206

System Bus

208

Memory
Controller/
Cache

I/O Bridge

210

Local Memory
209

212

server
200

Graphics
Adapter
230

I/O Bus

Hard Disk
232

216

PCI Bus Bridge
214

PCI Bus

218   220

Modem

Network
Adapter

226

PCI Bus Bridge
222

PCI Bus

228

PCI Bus Bridge
224

PCI Bus

Figure 3

Processor 302		

Host/PCI Cache/ Bridge 308

Main Memory 304

Audio Adapter 316

Bus 306

SCSI Host Bus Adapter 312

LAN Adapter 310

Expansion Bus Interface 314

Graphics Adapter 318

Audio/Video Adapter 319

Disk 326

Tape 328

CD-ROM 330

Client 300

Keyboard and Mouse Adapter 320

Modem 322

Memory 324

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Method, Apparatus, and Program for Generating
Java Full Thread Dumps From a Remote JVM
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| | Full |
| Ctrl-Break | Thread Dump |

User
410

Windows Console
415
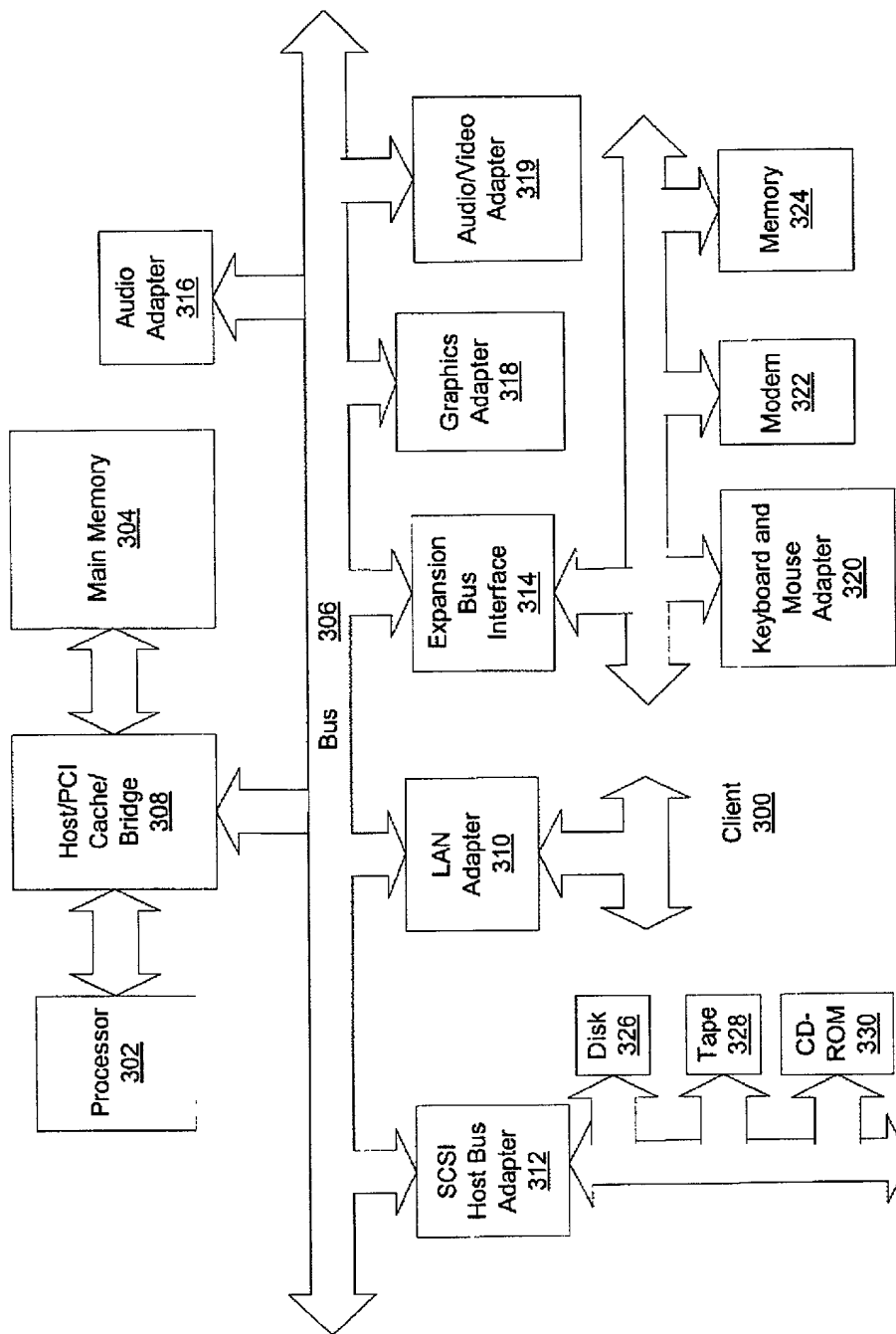
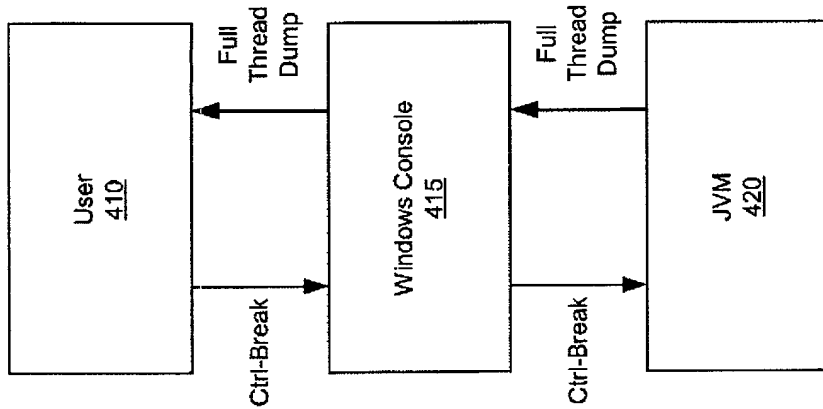| | Full |
| Ctrl-Break | Thread Dump |

JVM
420

Figure 4A
PRIOR ART
Tapperson
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Method, Apparatus, and Program for
Generating Java Full Thread Dumps From a
Remote JVM
Page 4 of 7

| | Full |
| Ctrl-Break | Thread Dump |

User
430

Windows Console
435

| | Full |
| Ctrl-Break | Thread Dump |

Client JVM
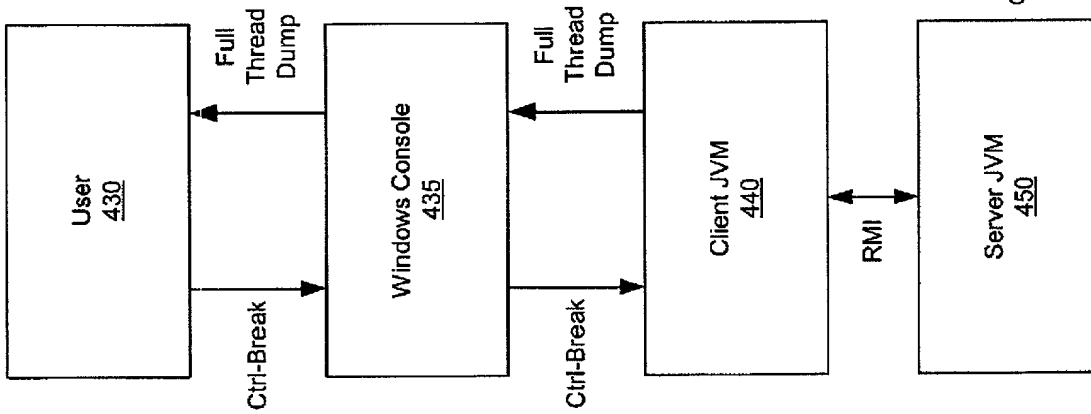**440**

RMI

Server JVM
450

Figure 4B
PRIOR ART
Tapperson
AUS920010054US1
Method, Apparatus, and Program for
Generating Java Full Thread Dumps From
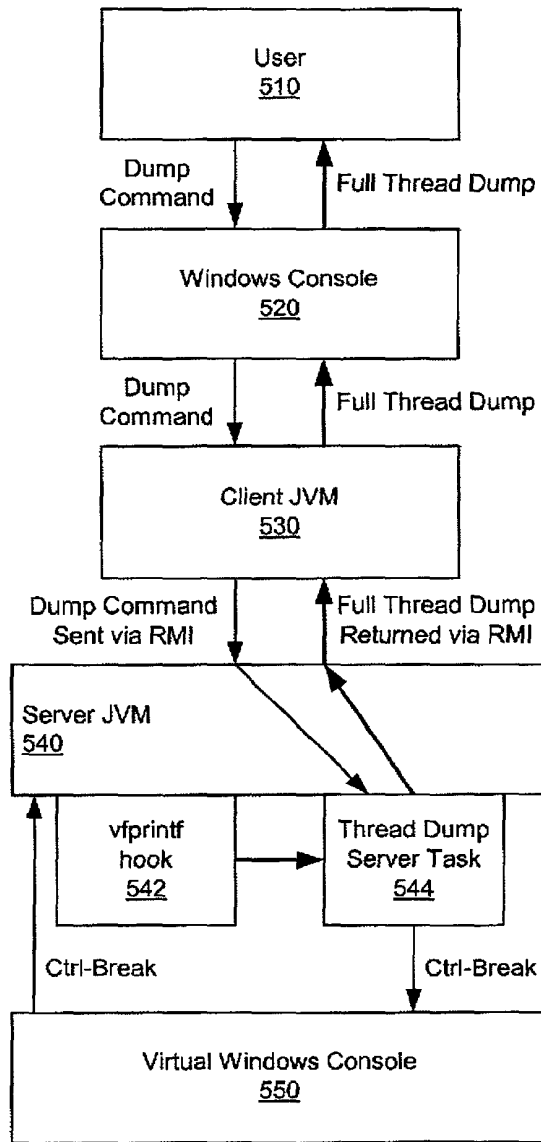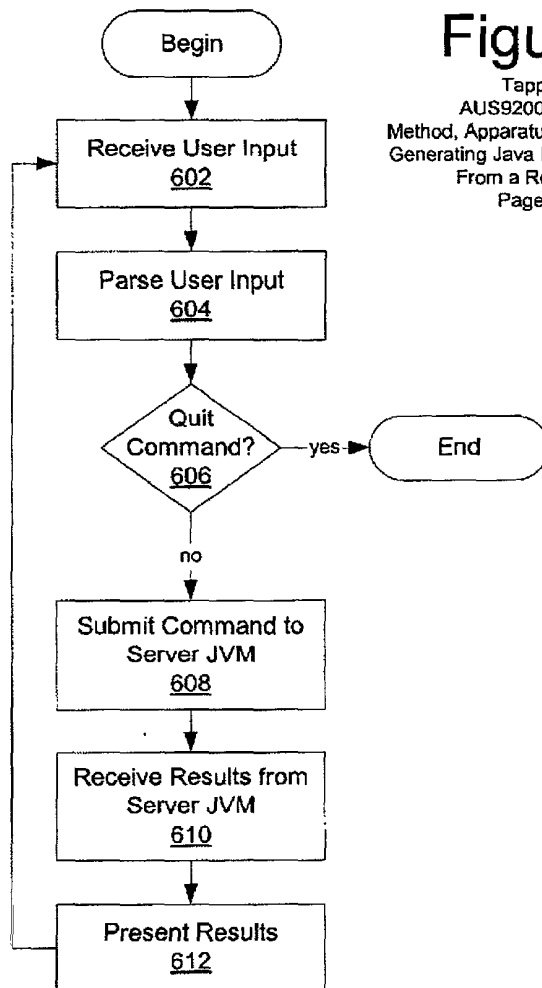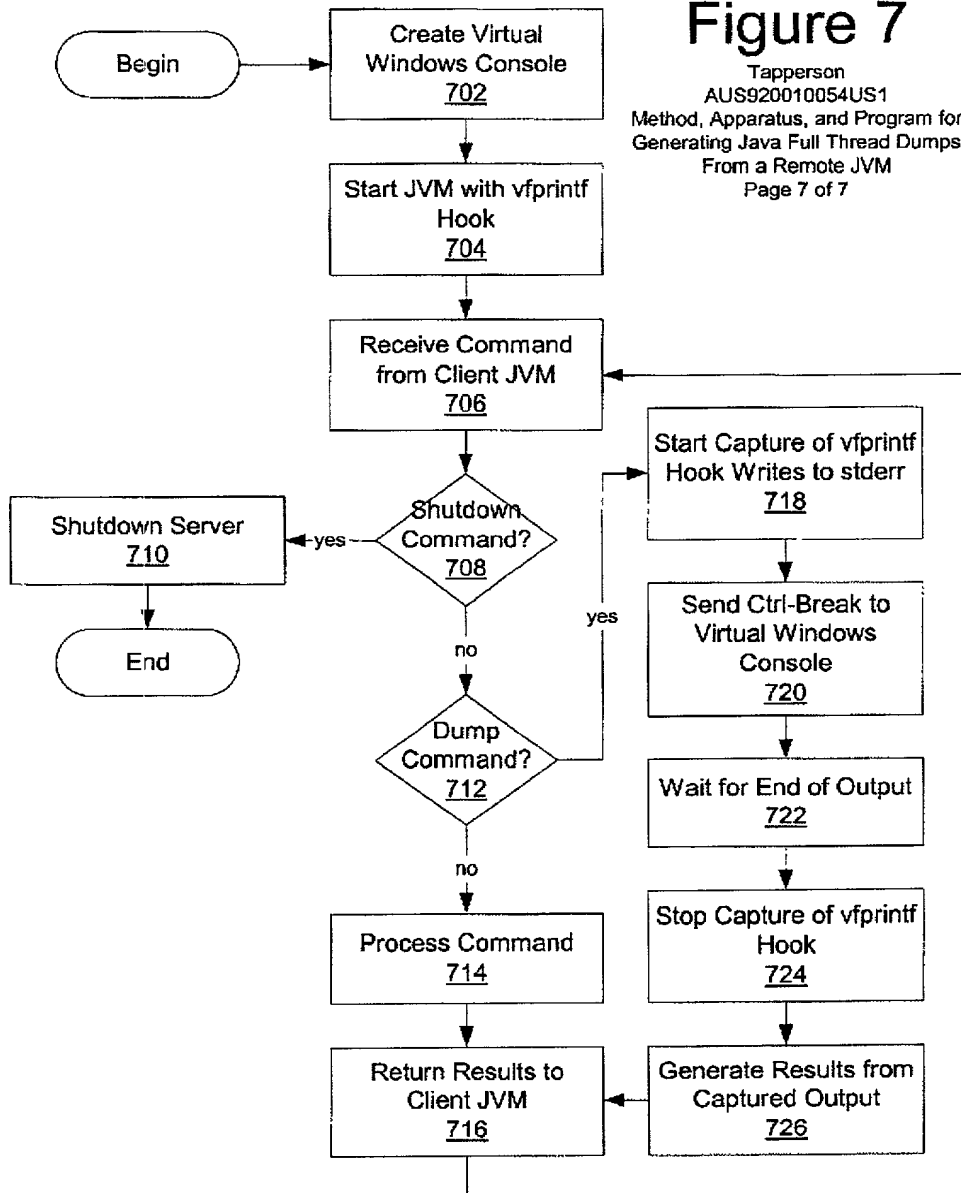a Remote JVM
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```
                      ┌─────────────────────┐
                      │        User         │
                      │        510          │
                      └─────────────────────┘
                  Dump  │              ▲
               Command  ▼              │ Full Thread Dump
                      ┌─────────────────────┐
                      │   Windows Console   │
                      │        520          │
                      └─────────────────────┘
                  Dump  │              ▲
               Command  ▼              │ Full Thread Dump
                      ┌─────────────────────┐
                      │     Client JVM      │
                      │        530          │
                      └─────────────────────┘
        Dump Command   │              ▲ Full Thread Dump
        Sent via RMI   ▼              │ Returned via RMI
  ┌────────────────────────────────────────────────┐
  │  Server JVM                                     │
  │  540                                            │
  │      ┌──────────────┐      ┌──────────────┐     │
  │      │   vfprintf   │      │ Thread Dump  │     │
  │      │    hook      │─────▶│ Server Task  │     │
  │      │    542       │      │    544       │     │
  │      └──────────────┘      └──────────────┘     │
  └────────────────────────────────────────────────┘
        ▲                            │
        │ Ctrl-Break                 │ Ctrl-Break
        │                            ▼
  ┌────────────────────────────────────────────────┐
  │         Virtual Windows Console                 │
  │                  550                            │
  └────────────────────────────────────────────────┘
```

Figure 5

Figure 6

Begin

Receive User Input
602

Parse User Input
604

Quit
Command?
606

—yes→ End

no

Submit Command to
Server JVM
608

Receive Results from
Server JVM
610

Present Results
612

Figure 7